

241300-53-T (Vol. I)

Engineering Report for
P-3/UWB Flight
Portage, Maine
26-27 June 1995

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Introduction

This report is written as an aid to users of the SAR data collected by the P-3/SAR on 26-27 June 1995. The data set generated consists of:

- HDDT #E1421
- HDDT #E1422
- HDDT #E1423
- HDDT #E1424
- Mission Plan disk, data, etc.
- Navigation disks
- Post Pass disks
- Post Pass Summary Sheets
- Radar Engineer Flight Notes

The report consists of a summary of each pass with crew comments included. Users of the data should review the pass summaries to be alerted for anomalies that may have occurred during the collection or noted by processing or analysis people. The appendix contains plots of critical parameters as a function of time.

This information is provided so that users can examine, in some detail the exact time and magnitude of observed anomalies. In addition users can go back to this data to determine if there is a correlation between "funnies" observed during processing and the engineering data. For example, if there was a blank strip in the image it might correlate with the transmitter power plot showing that the transmitter was off during that time.

All of the data shown in the plots is also recorded on the HDDT's in the Aux. data block and could be reproduced by the user. These plots are included in the appendix as a convenience for users of the data. The appendix is available upon request and thus is not included with this set of data.

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Results

A total of 27 passes were flown at 4 sites. Post-flight, it was discovered that incorrect bias values were applied to motion compensation calculations for all XLC mode passes, which will make the quality of data from these passes questionable. The sites, and the number of passes flown by each, follows:

Gravel Pit (22 passes: 15 good, 2 fair, 5 bad)
CAL Array/Cedar Swamp (3 passes: 1 good, 2 bad)
CAL Array/Ground Penetration Site (1 pass: 1 good)
Signature Array (1 pass: 1 fair)

Five frequency bands implemented: X, L, C, UWB Lo-509 MHz, and UWB Lo-180 MHz.

The Lo-180 MHz chirp waveform contained the following notches:
243 MHz Center Frequency, 1 MHz wide
255.4 MHz Center Frequency, 1 MHz wide

Two different chirp waveforms were used on the UWB Lo-509 MHz passes: one chirp containing two FAA frequency notches and an ILS frequency notch, and one chirp containing only the two FAA frequency notches. For each pass summary, the chirp waveform used will denote "ILS notch" or "no ILS notch". The specific notches used were:

ILS notch waveform:

243 MHz Center Frequency, 1 MHz wide
255.4 MHz Center Frequency, 1 MHz wide
406 MHz Center Frequency, 1 MHz wide

no ILS notch waveform:

243 MHz Center Frequency, 1 MHz wide
255.4 MHz Center Frequency, 1 MHz wide

Fifteen second "sniffs" were conducted after each UWB pass in order to collect Radio Frequency Interference (RFI) data. The RFI was much higher than was to be expected for the time of flight (night time) and geographical location. The radar crew reported that the RFI was highly directional, and they eventually could anticipate the amount of RFI they would encounter based on their direction of flight.

Problems Noted

- RTP output "all black" - Pass 1
- Incorrect INS biases used - Passes 1, 27, 28
- INS update after start map point - Passes 6 and 12
- Pass aborted early due to poor navigation - Pass 13
- UWB Transmitter fault (lost 40 seconds of map data) - Pass 19
- Pass aborted early, reason unknown - Pass 27

Pass 5 Line 9

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Calibration Array/Empty Cedar Swamp. Aircraft descended to 10,000 ft MSL. Navigation was poor on this pass, with cross-track error starting out at .165 nm, falling briefly to .16 nm, then climbing throughout the remainder of the pass to end up at .2 nm at the end map point. The transmitter operated well outputting about 975 watts. This was a priority 2 pass which was not repeated during the flight.

Pass 6 Line 11

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 240 degree aspect angle. Although not noted in the radar crew notes, shortly after start map the INS may have been updated. This is indicated by a slight course change to the North (as indicated on the GPS North and East velocity plots), and the GPS cross-track error rose quickly to a max of about .225 nm. The aircraft recovered back on-line fairly quickly though, although the cross-track error never fell below .16 nm. This was a priority 2 pass which was not repeated during the flight.

Pass 7 Line 13

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 60 degree aspect angle. Cross-track error at start map this pass was over .2 nm, possibly due to a short lineup period. It decreased constantly throughout the pass, to end up at .014 at the end map point. Transmitter output was about 954 watts. This was a priority 2 pass, which was not repeated during this flight.

Pass 8 Line 15

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 210 degree aspect angle. Excellent pass, with cross-track error within .1 nm throughout the pass (averaging .07 nm), and transmitter output at 934 watts. This was a priority 2 pass.

Pass 9 Line 17

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 30 degree aspect angle. Another excellent pass, with cross-track error starting at .1 nm and decreasing throughout the pass. Ending cross-track error was .049 nm. Transmitter output remained at 934 watts.

Pass 10 Line 19

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 180 degree aspect angle. Another good pass, with cross-track error starting out at .11 nm, then falling quickly to stabilize at .06 nm for most of the pass. Transmitter output was down to 914 watts.

Pass Summaries

UWB Portage, Maine Day #2
26-27 June 1995

Pass 1 Line 3

UWB low-band pre-TWT Synthetic Target.

NOTE: Computer system was power-cycled sometime after the Pass 1 Line 3 synthetic target was run, resulting in a resetting of pass numbers back to pass number 1, so this flight produced two passes labeled one.

Pass 1 Line 1

XLC mode. Target: Gravel Pit + 180 degree aspect angle (Training Pass). Navigation was excellent on this pass, with a starting cross-track error of .015 nm and an ending cross-track error of .017 nm. The radar crew reported: "no RTP data (all black)". RMS video level on the Real-time Processor (RTP) channel (channel 1, X-VV) shows 20 dB of attenuation, which resulted in only a 7% RMS video level. This may account for the "black" output of the RTP. RMS video levels on the other 3 channels looked good. This pass was a "training" pass (i.e. low priority) in order to get the INS/Autopilot configuration sorted out prior to the first high-priority pass. The pass was, in this respect, a success.

Pass 2 Line 5

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 0 degree aspect angle. First UWB line of the day. Transmitter power was around 934 watts. Navigation was fair, with a begin map cross-track error of .108 nm and an end map cross-track error of .160.

Pass 3 Line 3

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 180 degree aspect angle. Excellent pass, with no transmitter anomalies (power at 975 watts), and cross-track errors during the pass within .1 nm.

Pass 4 Line 7

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Calibration Array/Empty Cedar Swamp. Navigation was poor on this pass, with cross-track error starting out at .165 nm and climbing from there, ending at .244 nm. No transmitter problems, though, and output was around 975 watts. This was a priority 1 pass which was not repeated during this flight.

Pass 11 Line 21

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 0 degree aspect angle. Another good pass, with cross-track error starting at .07 nm and increasing throughout the pass to end up at .1 nm. Transmitter output was about 914 watts.

Pass 12 Line 23

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 120 degree aspect angle. Poor navigation on this pass. Similar looking GPS cross-track error and North and East velocity plots to pass 6. Cross-track error started out at .261 nm, decreased quickly to .215 nm, then climbed steadily to end at .26 nm. Approximate transmitter power was not recorded during this pass. This was a priority 1 pass which was not repeated during this flight.

Pass 13 Line 25

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 300 degree aspect angle. Poor navigation again, starting at .26 nm and climbing steadily throughout the pass to end at .36 nm. Transmitter output still at 914 watts. This was a priority 1 pass which may have been aborted early.

Pass 14 Line 25

Repeat of pass 13, but not much better, navigation wise. Cross-track error started out at .28 nm, maxed out at about .285 nm, then decreased steadily throughout the pass to end at .25 nm. This was the last attempt at this pass.

Pass 15 Line 27

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 150 degree aspect angle. Good pass, with cross-track error below .14 nm throughout pass. Transmitter performed well also, outputting 954 watts.

Pass 16 Line 29

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 330 degree aspect angle. Excellent pass, with cross-track errors below .06 nm throughout pass. Transmitter output: 975 watts.

Pass 17 Line 31

UWB low-band, 180 MHz bandwidth. Target: Calibration Array/Ground Penetration Site. Good pass, with cross-track errors starting out at .075 nm and climbing throughout pass to end at .11 nm. Transmitter output was 762 watts.

Pass 18 Line 33

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Signature Array. Aircraft descended to 7,000 ft MSL for this pass. Navigation on this pass started out poor, with .2 nm cross-track error which climbed to a max of .25 nm about 25% through the pass. The error decreased quickly from there though, and was down below .15 nm by the 50% complete point. Cross-track error at end map was .049 nm. Post-pass plots seem to show that the INS was updated about the 25% pass complete point, which cured the excessive cross-track error problem quickly. Transmitter output was around 995 watts.

Pass 19 Line 35

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 180 degree aspect angle. The aircraft descended to 6,000 ft MSL for the next series of passes. Navigation on this pass was excellent, starting out at .005 nm, maxing out at .008 nm, and ending at .002 nm. The transmitter faulted shortly after start map however, and had to be power-cycled to be brought back on-line. This took approximately 35 seconds. The remainder of the pass was uneventful.

Pass 20-21 Line 37

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 0 degree aspect angle. Another excellent navigational pass, with cross-track error starting out at .02 nm left of course and ending up .03 nm right of course. No transmitter problems occurred during mapping, and output power was around 914 watts. The attenuator for channel 4 was changed during mapping, which caused the pass number increment.

Pass 22 Line 39

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 150 degree aspect angle. Excellent pass, with cross-track errors from .046 nm to .038 nm, and no transmitter problems (output power: 875 watts).

Pass 23 Line 41

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 330 degree aspect angle. Excellent pass, with cross-track errors from .04 nm to .05 nm, and transmitter output power around 836 watts. The radar crew reported "lots of target returns on I.F. Spectrum Analyzer".

Pass 24 Line 43

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 120 degree aspect angle. Good pass, with cross-track errors starting and ending at .1 nm, with a peak error of less than .12 nm about mid-pass. The transmitter behaved well also, outputting about 780 watts.

Pass 25 Line 45

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 300 degree aspect angle. Excellent pass, with cross-track errors starting at .04 nm and decreasing steadily to 0 at end map point. Transmitter output was 818 watts.

Pass 26 Line 47

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Calibration Array/Cedar Swamp. Good pass, with cross-track errors under .15 nm for most of the pass. Starting cross-track error was .15 nm, decreasing quickly to .12 nm, then climbing steadily throughout the pass to end at .16 nm.

Pass 27 Line 2

XLC high resolution. Target: Gravel Pit + 0 degree aspect angle. This pass was performed to diagnose the "black" RTP output (despite plenty of received video shown on the Analog Oscilloscope) from Line 1 Pass 1. This pass was aborted after 2 seconds in mapping.

Pass 28 Line 2

Repeat of previous pass. It took the aircraft approximately 10 minutes to "turn around" and come in for another pass.

Mission Summaries

Differential GPS Navigation Summary for Portage, ME June 26, 1995
Xtk. and Alt. Error (feet)

	Alt. Mean	Alt. St. Dev.	Xtk. Mean	Xtk. St. Dev.
Pass 1	246.59	3.85	-102.94	34.15
Pass 2	225.61	5.17	801.22	92.06
Pass 3	248.79	4.75	472.23	27.7
Pass 4	253.09	9.16	-633.08	128.71
Pass 5	84.98	6.69	-762.83	64.06
Pass 6	94.22	3.03	548.18	122.41
Pass 7	95.37	3.22	-154.75	317.24
Pass 8	97.41	3.17	160.91	11.75
Pass 9	92.63	6.48	-151.51	11.11
Pass 10	99.41	2.86	254.35	82.52
Pass 11	105.11	4.55	676.1	29.17
Pass 12	124.84	3.48	-1112.11	83.42
Pass 13	126.99	1.9	1684.08	97.42
Pass 14	127.82	3.49	1291.49	26.63
Pass 15	121.74	3.48	-612.08	9.57
Pass 16	122.13	3.18	156.77	29.26
Pass 17	123.13	3.4	1153.63	28.92
Pass 18	-71.84	9.59	-172.02	510.99
Pass 19	-72.18	1.59	1.93	18.68
Pass 20	-74.9	3.46	218.5	44.01
Pass 21	-74.91	3.51	222.76	41.5
Pass 22	-63.57	2.51	-214.52	17.61
Pass 23	-61.48	1.72	-538.93	67.46
Pass 24	-55.78	3.94	-308.31	40.88
Pass 25	-45.14	2.5	-119.67	10.08
Pass 26	-55.76	2.63	-203.71	74.08
Pass 27	167.49	1.14	-54.6	7.61
Pass 28	177	2.44	49.39	85.64

NORMALIZED AVE POWER LEVEL SUMMARY
(TO: Max Groundspeed & 2000 Hz)

FOR P3 FLIGHT OF 27 Jun 1995, STARTING HOUR: 2

NOTE: X and L band transmitter power levels may vary
if the gain of the RF pulse was not adusted for a
radar configuration change. Consult the Mission
Summary sheet for details.

PASS	LINE	POWER (dBm)						GNDSPD (kt)		
		X		L		C		P		
----	----	-----		-----		-----		-----		-----
1	1	-32.3	.02	-31.4	.04	-37.4	0.00	-70.0	0.00	250.7
2	5	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.5	21.71	250.3
3	3	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.5	21.87	245.3
4	7	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.7	21.57	249.9
5	9	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.6	21.75	252.7
6	11	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.8	21.25	251.6
7	13	-70.0	0.00	-70.0	0.00	-70.0	0.00	41.0	20.86	251.3
8	15	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.4	21.70	255.1
9	17	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.3	21.68	251.7
10	19	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.3	21.67	249.9
11	21	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.1	21.91	257.2
12	23	-70.0	0.00	-70.0	0.00	-70.0	0.00	39.8	22.34	249.2
13	25	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.8	0.00	248.6
14	25	-70.0	0.00	-70.0	0.00	-70.0	0.00	39.8	22.49	253.8
15	27	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.7	21.50	249.7
16	29	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.7	21.63	250.1
17	31	-70.0	0.00	-70.0	0.00	-70.0	0.00	38.8	20.64	250.5
18	33	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.5	21.88	254.1
19	35	-70.0	0.00	-70.0	0.00	-70.0	0.00	33.2	30.54	250.6
20	37	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.9	.05	247.0
21		-70.0	0.00	-70.0	0.00	-70.0	0.00	40.0	22.19	243.7
22	39	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.3	21.30	249.8
23	41	-70.0	0.00	-70.0	0.00	-70.0	0.00	39.8	21.67	252.8
24	43	-70.0	0.00	-70.0	0.00	-70.0	0.00	39.4	21.92	244.8
25	45	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.0	21.43	250.1
26	47	-70.0	0.00	-70.0	0.00	-70.0	0.00	40.0	21.58	253.8
27	2	-31.7	0.00	-31.4	0.00	-37.4	0.00	-70.0	0.00	255.0
28	2	-31.7	0.00	-31.4	.02	-37.4	.05	-70.0	0.00	251.9
AVE:		-----		-----		-----		-----		
		-31.9	.01	-31.4	.02	-37.4	.02	40.5	20.28	

MISSION SUMMARY FOR:

PORTAGE MAINE, DAY 2

ON: 26 Jun 1995

PASS	LN #	S W A T H	R E S O P K	L O T	BRD A N T	DP S C A	ANGS D T G T	DES TRK	SAR LK	1	WAVE/POL CHANNEL:	2	3	4
	1	S	H	R	1	25.0	40.0	40.0	6	96	X HH	L HH	C HH	L VV
	5	S	H	R	1	25.0	45.0	45.0	186	276	p VV	p VH	p HV	p HH
	3	S	H	R	1	25.0	45.0	45.0	6	96	p VV	p VH	p HV	p HH
	7	S	H	R	1	25.0	45.0	45.0	276	6	p VV	p VH	p HV	p HH
	9	S	H	R	1	25.0	30.0	30.0	276	6	p VV	p VH	p HV	p HH
	11	S	H	R	1	25.0	30.0	30.0	66	156	p VV	p VH	p HV	p HH
	13	S	H	R	1	25.0	30.0	30.0	246	336	p VV	p VH	p HV	p HH
	15	S	H	R	1	25.0	30.0	30.0	36	126	p VV	p VH	p HV	p HH
	17	S	H	R	1	25.0	30.0	30.0	216	306	p VV	p VH	p HV	p HH
	19	S	H	R	1	25.0	30.0	30.0	6	96	p VV	p VH	p HV	p HH
	21	S	H	R	1	25.0	30.0	30.0	186	276	p VV	p VH	p HV	p HH
	23	S	H	R	1	25.0	30.0	30.0	306	36	p VV	p VH	p HV	p HH
	25	S	H	R	1	25.0	30.0	30.0	126	216	p VV	p VH	p HV	p HH
	25	S	H	R	1	25.0	30.0	30.0	126	216	p VV	p VH	p HV	p HH
	27	S	H	R	1	25.0	30.0	30.0	336	66	p VV	p VH	p HV	p HH
	29	S	H	R	1	25.0	30.0	30.0	156	246	p VV	p VH	p HV	p HH
	31	S	H	R	1	25.0	28.0	28.0	276	6	p VV	p VH	p HV	p HH
	33	S	H	R	1	25.0	20.0	20.0	276	6	p VV	p VH	p HV	p HH
	35	S	H	R	1	25.0	15.0	15.0	6	96	p VV	p VH	p HV	p HH
	37	S	H	R	1	25.0	15.0	15.0	186	276	p VV	p VH	p HV	p HH
	39	S	H	R	1	25.0	15.0	15.0	336	66	p VV	p VH	p HV	p HH
	41	S	H	R	1	25.0	15.0	15.0	156	246	p VV	p VH	p HV	p HH
	43	S	H	R	1	25.0	15.0	15.0	306	36	p VV	p VH	p HV	p HH
	45	S	H	R	1	25.0	15.0	15.0	126	216	p VV	p VH	p HV	p HH
	47	S	H	R	1	25.0	15.0	15.0	276	6	p VV	p VH	p HV	p HH
	2	S	H	L	1	25.0	40.0	40.0	186	96	X HH	L HH	C HH	L VV
	2	S	H	L	1	25.0	40.0	40.0	186	96	X HH	L HH	C HH	L VV

MISSION SUMMARY FOR:

PORTAGE MAINE, DAY 2

ON: 26 Jun 1995

PASS(S)	LINE	HDDT	MOCOMP COUNT	UCT TIME	PASS LEN	TGT ALT
-----	----	----	-----	-----	-----	-----
1	1	E1421	0151096 - 0173099	21:42:23 - 21:44:41	(138)	660
2	5	E1421	0206113 - 0232945	21:52:40 - 21:55:20	(160)	660
3	3	E1421	0265131 - 0291631	22:02:56 - 22:05:34	(158)	660
4	7	E1421	0317331 - 0344671	22:15:48 - 22:18:30	(163)	802
5	9	E1421	0367515 - 0394364	22:31:47 - 22:34:27	(160)	802
6	11	E1421	0417376 - 0443377	22:42:47 - 22:45:22	(155)	660
7	13	E1421	0462892 - 0489894	22:51:36 - 22:54:17	(161)	660
8	15	E1421	0516937 - 0543743	23:02:58 - 23:05:38	(160)	660
9	17	E1422	0570090 - 0596959	23:12:26 - 23:15:06	(160)	660
10	19	E1422	0628672 - 0655473	23:22:34 - 23:25:14	(160)	660
11	21	E1422	0680986 - 0707159	23:32:38 - 23:35:14	(156)	660
12	23	E1422	0753170 - 0780171	23:47:44 - 23:50:25	(161)	660
13	25	E1422	0802016 - 0806350	23:57:03 - 23:57:28	(25)	660
14	25	E1422	0844534 - 0871201	00:09:47 - 00:12:26	(159)	660
15	27	E1422	0908049 - 0935547	00:22:27 - 00:25:11	(164)	660
16	29	E1422	0959726 - 0986894	00:31:42 - 00:34:24	(162)	660
17	31	E1423	1020406 - 1047407	00:44:17 - 00:46:58	(161)	802
18	33	E1423	1087785 - 1114252	01:01:46 - 01:04:24	(158)	660
19	35	E1423	1141976 - 1168601	01:13:38 - 01:16:17	(159)	660
20-21	37	E1423	1198955 - 1226131	01:24:19 - 01:27:01	(162)	660
22	39	E1423	1255642 - 1283311	01:35:52 - 01:38:37	(165)	660
23	41	E1423	1316823 - 1343323	01:46:53 - 01:49:31	(158)	660
24	43	E1423	1376501 - 1404168	01:58:31 - 02:01:16	(165)	660
25	45	E1423	1442390 - 1469537	02:11:05 - 02:13:47	(162)	660
26	47	E1414	1495751 - 1522549	02:22:33 - 02:25:13	(160)	802
27	2	E1414	1554630 - 1522549	02:35:33 - 02:35:35	(2)	660
28	2	E1414	1590807 - 1613787	02:45:32 - 02:47:55	(143)	660

Navigation Summary Sheet
For P3 Flight of June 26 Starting at 21:42 (UCT)

Pass No	Time (UCT) (hr:mn:sc)	INS Mean	XTE S.D. (nm)	INS/GPS Mean	Lat. Dif. S.D. (ft)	INS/GPS Mean	Lon. Dif. S.D. (ft)	INS DR. LAT (kt)	RATE LON (kt)
1	21:42:27	-.04	.05	618.6	499.0	-916.5	287.9	-.1	-2.0
2	21:52:42	-.02	.04	-436.2	478.7	-425.8	255.3	.7	-.2
3	22:02:57	-0.00	.02	100.3	591.2	289.1	269.9	-2.0	.3
4	22:15:48	-.01	.04	-386.4	390.1	754.8	421.4	-1.9	-.4
5	22:31:47	-.02	.04	-511.2	367.8	833.7	349.5	-.8	-.1
6	22:42:47	-.08	.05	-425.5	445.7	374.8	699.9	1.1	4.9
7	22:51:37	.02	.05	1328.9	388.7	874.1	326.6	-.2	-.4
8	23:03:02	-.02	.04	-321.2	410.3	1044.0	389.8	.6	.3
9	23:12:29	-.07	.05	-45.9	493.2	240.4	321.1	0.0	-.6
10	23:22:34	-.06	.05	-642.5	498.3	-285.6	323.2	.3	-.3
11	23:32:39	-.09	.03	317.7	552.4	-243.2	322.6	-.6	.8
12	23:47:44	-0.00	.05	190.8	441.9	786.3	420.5	-2.3	-1.0
13	23:57:04	.03	.05	-598.8	350.1	-913.3	426.7	*,*	-5.5
14	00:09:50	-.03	.07	-536.3	415.9	-274.3	341.5	-1.1	-.6
15	00:22:30	-.03	.06	77.6	525.5	126.8	307.5	1.5	-.7
16	00:31:45	-.03	.05	617.0	505.3	-412.3	284.4	3.5	.3
17	00:44:20	-.01	.02	398.7	377.0	837.8	313.2	-.5	-1.3
18	01:01:47	.03	.11	146.6	828.7	493.2	507.6	5.3	3.4
19	01:13:42	-.01	.03	-1524.8	556.0	-59.4	305.3	-4.1	-1.7
20	01:24:22	-.03	.04	140.8	507.3	59.1	274.9	-3.7	-.3
22	01:35:52	-.02	.04	-539.9	419.6	433.6	287.6	.9	0.0
23	01:46:57	-.02	.04	1139.1	376.5	252.0	290.0	.7	-.3
24	01:58:32	-.01	.03	-49.5	384.8	-196.3	360.1	1.6	-.8
25	02:11:07	-.05	.05	225.7	376.8	112.1	321.2	-0.0	-.2
26	02:22:37	0.00	.04	378.6	443.1	76.0	471.3	-2.5	-3.1
27	02:35:34	*,**	0.00	-292.4	0.0	242.3	0.0	0.0	0.0
28	02:45:34	.01	.04	224.6	444.1	-1044.3	308.5	-.1	-.7

Navigation Summary Sheet
For P3 Flight of June 26 Starting at 21:42 (UCT)

Pass No	Time (UCT) (hr:mn:sc)	GPS		XTE		Comp. Inc.		Ang.		Baro. Alt.		Gndspeed	
		Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	INS	GPS
		(nm)	(nm)	(°)	(°)	(ft)	(ft)			(kt)	(kt)		
1	21:42:27	-.01	0.00	0.0	0.0	13501.3	4.6			250.7		250.8	
2	21:52:42	.14	.01	0.0	0.0	13422.0	4.2			250.3		250.8	
3	22:02:57	.09	.01	0.0	0.0	13513.7	5.6			245.4		246.2	
4	22:15:48	-.21	.03	0.0	0.0	13493.4	3.9			249.9		250.8	
5	22:31:47	-.18	.01	0.0	0.0	9971.5	4.2			252.7		253.3	
6	22:42:47	.18	.02	0.0	0.0	9979.5	2.8			251.5		251.5	
7	22:51:37	-.07	.06	0.0	0.0	9955.8	3.3			251.3		252.1	
8	23:03:02	.07	.01	0.0	0.0	9984.1	2.2			255.1		255.0	
9	23:12:29	-.07	.02	0.0	0.0	9937.2	4.1			251.7		252.4	
10	23:22:34	.07	.01	0.0	0.0	9981.5	3.2			249.9		250.6	
11	23:32:39	.09	.01	0.0	0.0	9948.3	5.3			257.2		256.4	
12	23:47:44	-.24	.02	0.0	0.0	9993.0	2.5			249.2		250.4	
13	23:57:04	.33	.02	0.0	0.0	9968.7	1.5			248.7		247.8	
14	00:09:50	.27	.01	0.0	0.0	9978.7	2.3			253.8		254.3	
15	00:22:30	-.13	0.00	0.0	0.0	9989.1	2.8			249.7		249.7	
16	00:31:45	.05	.01	0.0	0.0	9958.6	3.6			250.0		251.5	
17	00:44:20	.09	.01	0.0	0.0	9972.0	3.3			250.4		250.7	
18	01:01:47	-.14	.08	0.0	0.0	6833.8	7.9			254.1		254.4	
19	01:13:42	-0.00	0.00	0.0	0.0	5845.7	1.9			250.6		253.8	
20	01:24:22	.01	.02	0.0	0.0	5828.5	4.4			244.0		242.3	
22	01:35:52	-.04	0.00	0.0	0.0	5845.6	3.0			249.9		250.3	
23	01:46:57	-.04	.01	0.0	0.0	5845.6	2.8			252.7		253.9	
24	01:58:32	-.11	.01	0.0	0.0	5840.8	3.5			244.8		244.9	
25	02:11:07	.03	.01	0.0	0.0	5854.1	4.1			250.0		250.9	
26	02:22:37	-.13	.01	0.0	0.0	5844.4	3.3			253.8		252.8	
27	02:35:34	-.02	0.00	0.0	0.0	13314.0	0.0			255.0		252.1	
28	02:45:34	.01	.02	0.0	0.0	13329.1	2.0			251.9		250.9	

Pre-pass Data Sheets

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 1

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 30:07.76	W 70:33.18				
Line-up:	N 46:28.09	W 68:36.78	Start	N 46:39.76	W 68:31.33	660 ft
Start:	N 46:40.02	W 68:34.97	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:49.96	W 68:33.45	Last	N 46:49.70	W 68:29.80	660 ft
TO:	N 63:14.50	W 64:46.39				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: XLC

Radar Collection mode: Stripmap

X Offset:	5.65 ft	Alt over tgt:	12840.00 ft	Des Trk:	5.99°
Cmp Grg:	2.52 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12840.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.29 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	X HH	40.00°	40.00°	1.96 nmi
Ch 2:	L HH	40.00°	40.00°	1.96 nmi
Ch 3:	C HH	40.00°	40.00°	1.96 nmi
Ch 4:	L VV	40.00°	40.00°	1.96 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 2

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 63:14.50	W 64:46.38				
Line-up:	N 47:01.89	W 68:31.61	Start	N 46:49.70	W 68:29.80	660 ft
Start:	N 46:49.96	W 68:33.44	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:40.02	W 68:34.96	Last	N 46:39.76	W 68:31.33	660 ft
TO:	N 30:07.76	W 70:33.17				
				Tgt Trk:	0.0°	Vel: 0.0 knots

Radar data

Radar Mode: XLC

Radar Collection mode: Stripmap

X Offset:	5.72 ft	Alt over tgt:	12840.00 ft	Des Trk:	186.01°
Cmp Grg:	2.51 nmi	Ant Dep ang:	25.00°	Look:	Left
Cmp Alt:	12840.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.29 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	-90.00°	End Squint:	-90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	X HH	40.00°	40.00°	1.96 nmi
Ch 2:	L HH	40.00°	40.00°	1.96 nmi
Ch 3:	C HH	40.00°	40.00°	1.96 nmi
Ch 4:	L VV	40.00°	40.00°	1.96 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 3

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 30:07.71	W 70:32.59				
Line-up:	N 46:28.05	W 68:36.19	Start	N 46:39.76	W 68:31.33	660 ft
Start:	N 46:39.98	W 68:34.38	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:49.92	W 68:32.86	Last	N 46:49.70	W 68:29.80	660 ft
TO:	N 63:14.46	W 64:45.81				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB Radar Collection mode: Stripmap

X Offset:	3.96 ft	Alt over tgt:	12840.00 ft	Des Trk:	5.99°
Cmp Grg:	2.12 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12840.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.99 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @ 9.3 dB		
2) 1 MHz Bandwidth Centered @	406 MHz, Depth @ 9.3 dB		
3) 0 MHz Bandwidth Centered @	0 MHz, Depth @ Depth unknown call Mark Hawks		
@ (313) 994-1200 EXT 2490			

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	45.00°	45.00°	2.74 nmi
Ch 2:	p VH	45.00°	45.00°	2.74 nmi
Ch 3:	p HV	45.00°	45.00°	2.74 nmi
Ch 4:	p HH	45.00°	45.00°	2.74 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 5

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 63:14.02	W 64:39.72	No.	N 46:49.70	W 68:29.80	660 ft
Line-up:	N 47:01.40	W 68:24.91	Start	N 46:49.70	W 68:29.80	660 ft
Start:	N 46:49.48	W 68:26.74	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:39.53	W 68:28.26	Last	N 46:39.76	W 68:31.33	660 ft
TO:	N 30:07.27	W 70:26.48				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB Radar Collection mode: Stripmap

X Offset:	3.99 ft	Alt over tgt:	12840.00 ft	Des Trk:	186.01°
Cmp Grg:	2.11 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12840.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.99 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @ 9.3 dB		
2) 1 MHz Bandwidth Centered @	406 MHz, Depth @ 9.3 dB		

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	45.00°	45.00°	2.74 nmi
Ch 2:	p VH	45.00°	45.00°	2.74 nmi
Ch 3:	p HV	45.00°	45.00°	2.74 nmi
Ch 4:	p HH	45.00°	45.00°	2.74 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 7

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: CALCS

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 42:36.03	W 45:45.85	No.	N 46:43.76	W 68:21.75	802 ft
Line-up:	N 46:40.39	W 68:04.74	Start	N 46:43.76	W 68:21.75	802 ft
Start:	N 46:41.68	W 68:22.07	Main	N 46:44.29	W 68:28.98	802 ft
End:	N 46:42.73	W 68:36.53	Last	N 46:44.81	W 68:36.21	802 ft
TO:	N 45:53.35	W 92:35.40				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB Radar Collection mode: Stripmap

X Offset:	18.32 ft	Alt over tgt:	12698.00 ft	Des Trk:	276.08°
Cmp Grg:	2.09 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12698.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @ 9.3 dB		
2) 1 MHz Bandwidth Centered @	406 MHz, Depth @ 9.3 dB		

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	45.00°	45.00°	2.70 nmi
Ch 2:	p VH	45.00°	45.00°	2.70 nmi
Ch 3:	p HV	45.00°	45.00°	2.70 nmi
Ch 4:	p HH	45.00°	45.00°	2.70 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 9

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: CALCS

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 42:35.56	W 45:46.11				
Line-up:	N 46:39.86	W 68:04.82	Start	N 46:43.76	W 68:21.75	802 ft
Start:	N 46:41.15	W 68:22.15	Main	N 46:44.29	W 68:28.98	802 ft
End:	N 46:42.20	W 68:36.61	Last	N 46:44.81	W 68:36.21	802 ft
TO:	N 45:52.85	W 92:35.25				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	22.71 ft	Alt over tgt:	9198.00 ft	Des Trk:	276.08°
Cmp Grg:	2.62 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9198.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.03 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1)	1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB
2)	1 MHz Bandwidth Centered @	406 MHz, Depth @	9.3 dB

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.77 nmi
Ch 2:	p VH	30.00°	30.00°	2.77 nmi
Ch 3:	p HV	30.00°	30.00°	2.77 nmi
Ch 4:	p HH	30.00°	30.00°	2.77 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 11

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 38:11.70	W 87:57.28				
Line-up:	N 46:40.21	W 68:54.68	Start	N 46:42.69	W 68:37.20	660 ft
Start:	N 46:45.12	W 68:38.78	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:49.19	W 68:25.49	Last	N 46:46.75	W 68:23.92	660 ft
TO:	N 51:06.09	W 43:59.16				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	22.99 ft	Alt over tgt:	9340.00 ft	Des Trk:	65.90°
Cmp Grg:	2.66 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.07 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @ 9.3 dB		
2) 1 MHz Bandwidth Centered @	406 MHz, Depth @ 9.3 dB		

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

Ch	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.82 nmi
Ch 2:	p VH	30.00°	30.00°	2.82 nmi
Ch 3:	p HV	30.00°	30.00°	2.82 nmi
Ch 4:	p HH	30.00°	30.00°	2.82 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 13

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 51:01.11	W 43:58.40				
Line-up:	N 46:49.16	W 68:06.36	Start	N 46:46.75	W 68:23.91	660 ft
Start:	N 46:44.31	W 68:22.34	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:40.25	W 68:35.62	Last	N 46:42.70	W 68:37.21	660 ft
TO:	N 38:07.53	W 87:53.28				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	23.01 ft	Alt over tgt:	9340.00 ft	Des Trk:	246.10°
Cmp Grg:	2.66 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.07 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB	
2) 1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB	

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.82 nmi
Ch 2:	p VH	30.00°	30.00°	2.82 nmi
Ch 3:	p HV	30.00°	30.00°	2.82 nmi
Ch 4:	p HH	30.00°	30.00°	2.82 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 15

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 32:36.42	W 80:04.73	No.	N 46:40.68	W 68:34.84	660 ft
Line-up:	N 46:32.53	W 68:48.17	Start	N 46:40.68	W 68:34.84	660 ft
Start:	N 46:42.25	W 68:37.97	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:50.34	W 68:29.42	Last	N 46:48.77	W 68:26.28	660 ft
TO:	N 58:57.94	W 49:34.83				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	5.26 ft	Alt over tgt:	9340.00 ft	Des Trk:	35.94°
Cmp Grg:	2.66 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.07 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB	
2) 1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB	

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.82 nmi
Ch 2:	p VH	30.00°	30.00°	2.82 nmi
Ch 3:	p HV	30.00°	30.00°	2.82 nmi
Ch 4:	p HH	30.00°	30.00°	2.82 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 17

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 58:54.63	W 49:29.68	No.	N 46:48.76	W 68:26.27	660 ft
Line-up:	N 46:56.89	W 68:12.83	Start	N 46:48.76	W 68:26.27	660 ft
Start:	N 46:47.20	W 68:23.14	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:39.11	W 68:31.69	Last	N 46:40.69	W 68:34.84	660 ft
TO:	N 32:33.55	W 79:58.52				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	5.25 ft	Alt over tgt:	9340.00 ft	Des Trk:	216.06°
Cmp Grg:	2.66 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.07 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB	
2) 1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB	

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.82 nmi
Ch 2:	p VH	30.00°	30.00°	2.82 nmi
Ch 3:	p HV	30.00°	30.00°	2.82 nmi
Ch 4:	p HH	30.00°	30.00°	2.82 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 19

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 30:07.77	W 70:33.39	No.	N 46:39.76	W 68:31.33	660 ft
Line-up:	N 46:28.10	W 68:36.99	Start	N 46:39.76	W 68:31.33	660 ft
Start:	N 46:40.03	W 68:35.18	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:49.97	W 68:33.66	Last	N 46:49.70	W 68:29.80	660 ft
TO:	N 63:14.52	W 64:46.60				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	6.32 ft	Alt over tgt:	9340.00 ft	Des Trk:	5.99°
Cmp Grg:	2.67 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.07 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB	
2) 1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB	

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.82 nmi
Ch 2:	p VH	30.00°	30.00°	2.82 nmi
Ch 3:	p HV	30.00°	30.00°	2.82 nmi
Ch 4:	p HH	30.00°	30.00°	2.82 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 21

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 63:13.96	W 64:38.93	No.	N 46:49.70	W 68:29.80	660 ft
Line-up:	N 47:01.35	W 68:24.11	Start	N 46:49.70	W 68:29.80	660 ft
Start:	N 46:49.42	W 68:25.95	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:39.48	W 68:27.47	Last	N 46:39.76	W 68:31.33	660 ft
TO:	N 30:07.21	W 70:25.69				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	6.34 ft	Alt over tgt:	9340.00 ft	Des Trk:	186.01°
Cmp Grg:	2.66 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.07 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB	
2) 1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB	

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.82 nmi
Ch 2:	p VH	30.00°	30.00°	2.82 nmi
Ch 3:	p HV	30.00°	30.00°	2.82 nmi
Ch 4:	p HH	30.00°	30.00°	2.82 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 23

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 35:34.36	W 52:00.47				
Line-up:	N 46:32.56	W 68:12.91	Start	N 46:41.79	W 68:24.68	660 ft
Start:	N 46:39.64	W 68:26.96	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:45.51	W 68:38.72	Last	N 46:47.66	W 68:36.46	660 ft
TO:	N 54:22.90	W 91:55.23				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	9.40 ft	Alt over tgt:	9340.00 ft	Des Trk:	306.05°
Cmp Grg:	2.66 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.07 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB	
2) 1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB	

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.82 nmi
Ch 2:	p VH	30.00°	30.00°	2.82 nmi
Ch 3:	p HV	30.00°	30.00°	2.82 nmi
Ch 4:	p HH	30.00°	30.00°	2.82 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 25

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 54:27.42	W 91:52.73	No.	N 46:47.65	W 68:36.46	660 ft
Line-up:	N 46:56.83	W 68:48.36	Start	N 46:47.65	W 68:36.46	660 ft
Start:	N 46:49.80	W 68:34.19	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:43.93	W 68:22.42	Last	N 46:41.79	W 68:24.68	660 ft
TO:	N 35:38.07	W 51:55.62				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	9.47 ft	Alt over tgt:	9340.00 ft	Des Trk:	125.95°
Cmp Grg:	2.66 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.07 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB	
2) 1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB	

Receive Chirp File: CRL1NOA

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.82 nmi
Ch 2:	p VH	30.00°	30.00°	2.82 nmi
Ch 3:	p HV	30.00°	30.00°	2.82 nmi
Ch 4:	p HH	30.00°	30.00°	2.82 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 27

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 31:10.38	W 60:44.66	No.	N 46:40.16	W 68:27.61	660 ft
Line-up:	N 46:28.11	W 68:24.09	Start	N 46:40.16	W 68:27.61	660 ft
Start:	N 46:39.08	W 68:31.14	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:48.21	W 68:37.06	Last	N 46:49.29	W 68:33.53	660 ft
TO:	N 61:16.22	W 82:32.56				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	4.72 ft	Alt over tgt:	9340.00 ft	Des Trk:	336.03°
Cmp Grg:	2.67 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.07 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB	
2) 1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB	

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.82 nmi
Ch 2:	p VH	30.00°	30.00°	2.82 nmi
Ch 3:	p HV	30.00°	30.00°	2.82 nmi
Ch 4:	p HH	30.00°	30.00°	2.82 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 29

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 61:18.45	W 82:26.03	No.	N 46:49.29	W 68:33.54	660 ft
Line-up:	N 47:01.32	W 68:37.14	Start	N 46:49.29	W 68:33.54	660 ft
Start:	N 46:50.37	W 68:30.00	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:41.24	W 68:24.09	Last	N 46:40.16	W 68:27.60	660 ft
TO:	N 31:12.45	W 60:37.70				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	4.72 ft	Alt over tgt:	9340.00 ft	Des Trk:	155.97°
Cmp Grg:	2.66 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.07 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB	
2) 1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB	

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.82 nmi
Ch 2:	p VH	30.00°	30.00°	2.82 nmi
Ch 3:	p HV	30.00°	30.00°	2.82 nmi
Ch 4:	p HH	30.00°	30.00°	2.82 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 31

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: CALCS

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 42:35.36	W 45:46.22				
Line-up:	N 46:39.64	W 68:04.86	Start	N 46:43.76	W 68:21.75	802 ft
Start:	N 46:40.93	W 68:22.18	Main	N 46:44.29	W 68:28.98	802 ft
End:	N 46:41.98	W 68:36.64	Last	N 46:44.81	W 68:36.21	802 ft
TO:	N 45:52.64	W 92:35.19				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	24.53 ft	Alt over tgt:	9198.00 ft	Des Trk:	276.08°
Cmp Grg:	2.85 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9198.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.22 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL2U2A

Starting Frequency:	215.0 MHz	Rate:	19.4 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz,	Depth @	9.3 dB

Receive Chirp File: CRL2N0A

Starting Frequency:	1405.0 MHz	Rate:	19.4 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	28.00°	28.00°	2.69 nmi
Ch 2:	p VH	28.00°	28.00°	2.69 nmi
Ch 3:	p HV	28.00°	28.00°	2.69 nmi
Ch 4:	p HH	28.00°	28.00°	2.69 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 33

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: SIG

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 42:35.97	W 45:47.31	No.	N 46:44.44	W 68:23.07	660 ft
Line-up:	N 46:40.30	W 68:06.18	Start	N 46:44.44	W 68:23.07	660 ft
Start:	N 46:41.59	W 68:23.50	Main	N 46:44.97	W 68:30.30	660 ft
End:	N 46:42.64	W 68:37.97	Last	N 46:45.49	W 68:37.53	660 ft
TO:	N 45:53.24	W 92:36.79				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	24.71 ft	Alt over tgt:	6340.00 ft	Des Trk:	276.08°
Cmp Grg:	2.87 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	6340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.05 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @ 9.3 dB		
2) 1 MHz Bandwidth Centered @	255.3 MHz, Depth @ 9.3 dB		

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	20.00°	20.00°	2.80 nmi
Ch 2:	p VH	20.00°	20.00°	2.80 nmi
Ch 3:	p HV	20.00°	20.00°	2.80 nmi
Ch 4:	p HH	20.00°	20.00°	2.80 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 35

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 30:07.84	W 70:34.28	No.	N 46:39.76	W 68:31.33	660 ft
Line-up:	N 46:28.17	W 68:37.88	Start	N 46:39.76	W 68:31.33	660 ft
Start:	N 46:40.10	W 68:36.07	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:50.04	W 68:34.55	Last	N 46:49.70	W 68:29.80	660 ft
TO:	N 63:14.58	W 64:47.49				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	9.61 ft	Alt over tgt:	5340.00 ft	Des Trk:	5.99°
Cmp Grg:	3.28 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.40 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presumo

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1)	1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB
2)	1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	15.00°	15.00°	3.14 nmi
Ch 2:	p VH	15.00°	15.00°	3.14 nmi
Ch 3:	p HV	15.00°	15.00°	3.14 nmi
Ch 4:	p HH	15.00°	15.00°	3.14 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 37

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 63:13.90	W 64:38.04	No.	N 46:49.70	W 68:29.80	660 ft
Line-up:	N 47:01.28	W 68:23.22	Start	N 46:49.70	W 68:29.80	660 ft
Start:	N 46:49.35	W 68:25.06	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:39.41	W 68:26.58	Last	N 46:39.76	W 68:31.33	660 ft
TO:	N 30:07.15	W 70:24.80				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	9.62 ft	Alt over tgt:	5340.00 ft	Des Trk:	186.01°
Cmp Grg:	3.28 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.40 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1)	1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB
2)	1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	15.00°	15.00°	3.14 nmi
Ch 2:	p VH	15.00°	15.00°	3.14 nmi
Ch 3:	p HV	15.00°	15.00°	3.14 nmi
Ch 4:	p HH	15.00°	15.00°	3.14 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 39

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 31:10.14	W 60:45.47	No.			
Line-up:	N 46:27.86	W 68:24.91	Start	N 46:40.16	W 68:27.61	660 ft
Start:	N 46:38.83	W 68:31.96	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:47.96	W 68:37.88	Last	N 46:49.29	W 68:33.53	660 ft
TO:	N 61:15.96	W 82:33.31				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB Radar Collection mode: Stripmap

X Offset:	6.69 ft	Alt over tgt:	5340.00 ft	Des Trk:	336.03°
Cmp Grg:	3.28 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.40 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1)	1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB
2)	1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	15.00°	15.00°	3.14 nmi
Ch 2:	p VH	15.00°	15.00°	3.14 nmi
Ch 3:	p HV	15.00°	15.00°	3.14 nmi
Ch 4:	p HH	15.00°	15.00°	3.14 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 41

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 61:18.71	W 82:25.28	No.	N 46:49.29	W 68:33.54	660 ft
Line-up:	N 47:01.57	W 68:36.32	Start	N 46:49.29	W 68:33.54	660 ft
Start:	N 46:50.62	W 68:29.18	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:41.49	W 68:23.26	Last	N 46:40.16	W 68:27.60	660 ft
TO:	N 31:12.69	W 60:36.89				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	6.68 ft	Alt over tgt:	5340.00 ft	Des Trk:	155.97°
Cmp Grg:	3.28 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.40 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB	
2) 1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB	

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	15.00°	15.00°	3.14 nmi
Ch 2:	p VH	15.00°	15.00°	3.14 nmi
Ch 3:	p HV	15.00°	15.00°	3.14 nmi
Ch 4:	p HH	15.00°	15.00°	3.14 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 43

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 35:33.93	W 52:01.04	No.	N 46:41.79	W 68:24.68	660 ft
Line-up:	N 46:32.06	W 68:13.43	Start	N 46:41.79	W 68:24.68	660 ft
Start:	N 46:39.14	W 68:27.49	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:45.01	W 68:39.25	Last	N 46:47.66	W 68:36.46	660 ft
TO:	N 54:22.37	W 91:55.52				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB Radar Collection mode: Stripmap

X Offset:	10.51 ft	Alt over tgt:	5340.00 ft	Des Trk:	306.05°
Cmp Grg:	3.28 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.40 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1)	1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB
2)	1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	15.00°	15.00°	3.14 nmi
Ch 2:	p VH	15.00°	15.00°	3.14 nmi
Ch 3:	p HV	15.00°	15.00°	3.14 nmi
Ch 4:	p HH	15.00°	15.00°	3.14 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 45

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 54:27.95	W 91:52.44	No.			
Line-up:	N 46:57.33	W 68:47.84	Start	N 46:47.65	W 68:36.46	660 ft
Start:	N 46:50.30	W 68:33.66	Main	N 46:44.73	W 68:30.56	660 ft
End:	N 46:44.43	W 68:21.89	Last	N 46:41.79	W 68:24.68	660 ft
TO:	N 35:38.50	W 51:55.06				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	10.60 ft	Alt over tgt:	5340.00 ft	Des Trk:	125.95°
Cmp Grg:	3.28 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5340.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.40 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB	
2) 1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB	

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	15.00°	15.00°	3.14 nmi
Ch 2:	p VH	15.00°	15.00°	3.14 nmi
Ch 3:	p HV	15.00°	15.00°	3.14 nmi
Ch 4:	p HH	15.00°	15.00°	3.14 nmi

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 47

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: CALCS

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 42:35.05	W 45:46.38				
Line-up:	N 46:39.29	W 68:04.91	Start	N 46:43.76	W 68:21.75	802 ft
Start:	N 46:40.59	W 68:22.23	Main	N 46:44.29	W 68:28.98	802 ft
End:	N 46:41.63	W 68:36.69	Last	N 46:44.81	W 68:36.21	802 ft
TO:	N 45:52.31	W 92:35.10				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	27.30 ft	Alt over tgt:	5198.00 ft	Des Trk:	276.08°
Cmp Grg:	3.19 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5198.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.31 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1) 1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB	
2) 1 MHz Bandwidth Centered @	255.3 MHz, Depth @	9.3 dB	

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	15.00°	15.00°	3.05 nmi
Ch 2:	p VH	15.00°	15.00°	3.05 nmi
Ch 3:	p HV	15.00°	15.00°	3.05 nmi
Ch 4:	p HH	15.00°	15.00°	3.05 nmi

Post-pass Data Sheets

26 Jun 1995
Tape: E1421

Post-line Data Sheet
Line 3
Mission: PORTAGE MAINE, DAY
UWB Synthetic Target

Time: 177:20:25:58
Pass 1
Req.# 0

AIRCRAFT & CHANNEL DATA

Altitude		Wave/Pol.:	CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft		p-VV	p-VH	p-HV	p-HH
Baro:	13499 ft	Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18159 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Right	St rng (ft):	16624	16624	16624	16624
Depr Ang:	25.0°	Near Rng Dep:	54.3°	54.3°	54.3°	54.3°
Des. trk:	6.0°	Far Rng Dep:	24.3°	24.3°	24.3°	24.3°
Start Sq:	90.0°	Atten (dB):	55.0	54.0	55.0	54.0
End Sq:	90.0°					

WAYPOINTS

	Latitude	Longitude	
Line up:	N 46:28.05	W 68:36.19	Main Target: GP
Start:	N 46:39.98	W 68:34.38	Mocomp Point:
End:	N 46:49.92	W 68:32.86	Lat: N 46:44.73
			Long: W 68:30.56
From:	N 30:07.71	W 70:32.59	Tgt Trk: 0.0 Tgt Vel: 0.0
To:	N 63:14.46	W 64:45.81	Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 2	Filter damping is Hi -> 10 sec
Resolution: N/A	PRF Factor is SLOW (350.0 kts)
Swath width: Single	Groundspeed: Real -> 350.0 kts
RMS Time Constant: 2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference: ON	INS Vel/Pos Reference
Atten. Tracking: OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta: 0.0 ft	Range Tracking is OFF
Azimuth Presum Rate: Presum6	Clutterlock Reference: OFF
TX Chirp Filename: CTL1U2B	RX Chirp Filename: CRL1N0A

CAL POWER	ANT BIAS	Tape Footage	Drive no.
X: 0.0	Elevation: 0.0°	Starting: 197 ft	(1)
L: 0.0	Azimuth: 0.0°	Ending: 335 ft	(1)
C: 0.0	Pitch: 0.0°		
P: -12.8			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1035.0	X: 63.8 dB	Start: 20:25:58
Y: -433.0	L: 63.8 dB	End: 20:25:59
Z: 6697.0	C: 63.8 dB	

Mocomp Counters

CPR (UCT): 00:00:00
Alt: 0 ft (GPS)

	Start	End
Ch 1:	28263 00006E67h	29265 00007251h
Ch 2:	28263 00006E67h	29265 00007251h
Ch 3:	28263 00006E67h	29265 00007251h
Ch 4:	28263 00006E67h	29265 00007251h

26 Jun 1995
Tape: E1421

Post-line Data Sheet
Line 1
Mission: PORTAGE MAINE, DAY

Time: 177:21:42:23
Pass 1
Req.# 1

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	X-HH	L-HH	C-HH	L-VV
Baro:	13501 ft s.d.=	4 Swath Ctr Ang:	40.0°	40.0°	40.0°	40.0°
Slt. rng:	19975 ft	Tgt Dep Ang:	40.0°	40.0°	40.0°	40.0°
Look:	Right	St rng (ft):	11915	11915	11915	11915
Depr Ang:	25.0°	Near Rng Dep:	90.0°	90.0°	90.0°	90.0°
Des. trk:	6.0°	Far Rng Dep:	28.8°	28.8°	28.8°	28.8°
Start Sq:	90.0°	Atten (dB):	20.0	36.0	18.0	32.0
End Sq:	90.0°	RMS Video (%FS)	7.1	24.5	21.4	33.7

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:28.09	W 68:36.78
Start:	N 46:40.02	W 68:34.97
End:	N 46:49.96	W 68:33.45
From:	N 30:07.76	W 70:33.18
To:	N 63:14.50	W 64:46.39

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for XLC

RTP Channel: 1
Resolution: High
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.7 kts
Mocomp On
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF

Ave Ref Vel -> -.3 fps (s.d.= 2.0)
Ave Fil Vel -> -.2 fps (s.d.= 1.5)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -32.3	Elevation: 0.0°	Starting: 487 ft	(1)
L: -31.4	Azimuth: 0.0°	Ending: 1535 ft	(1)
C: -37.4	Pitch: 0.0°		
P: -70.0			

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 21:42:23
End: 21:44:41

Mocomp Counters

Start: 151096 00024E38h
End: 173099 0002A42Bh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

26 Jun 1995
Tape: E1421

Post-line Data Sheet
Line 5
Mission: PORTAGE MAINE, DAY

Time: 177:21:52:40
Pass 2
Req.# 4

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	13422 ft s.d.=	5 Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18159 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Right	St rng (ft):	16624	16624	16624	16624
Depr Ang:	25.0°	Near Rng Dep:	53.8°	53.8°	53.8°	53.8°
Des. trk:	186.0°	Far Rng Dep:	24.2°	24.2°	24.2°	24.2°
Start Sq:	90.0°	Atten (dB):	50.0	57.0	50.0	57.0
End Sq:	90.0°	RMS Video (%FS)	28.1	20.9	20.8	23.8

WAYPOINTS

	Latitude	Longitude
Line_up:	N 47:01.40	W 68:24.91
Start:	N 46:49.48	W 68:26.74
End:	N 46:39.53	W 68:28.26
From:	N 63:14.02	W 64:39.72
To:	N 30:07.27	W 70:26.48

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.3 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.5 fps (s.d.= 1.9)
Ave Fil Vel -> -.7 fps (s.d.= 1.5)

NML XMIT PWR	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.9	

Tape Footage	Drive no.
Starting: 1548 ft	(1)
Ending: 2791 ft	(1)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 21:52:40
End: 21:55:20

Mocomp Counters

Start: 206113 00032521h
End: 232945 00038DF1h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1421

Post-line Data Sheet
Line 3
Mission: PORTAGE MAINE, DAY

Time: 177:22:02:56
Pass 3
Req.# 3

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	13513 ft s.d.=	6 Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18159 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Right	St rng (ft):	16624	16624	16624	16624
Depr Ang:	25.0°	Near Rng Dep:	54.4°	54.4°	54.4°	54.4°
Des. trk:	6.0°	Far Rng Dep:	24.4°	24.4°	24.4°	24.4°
Start Sq:	90.0°	Atten (dB):	50.0	53.0	50.0	57.0
End Sq:	90.0°	RMS Video (%FS)	29.4	23.0	22.9	23.8

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:28.05	W 68:36.19
Start:	N 46:39.98	W 68:34.38
End:	N 46:49.92	W 68:32.86
From:	N 30:07.71	W 70:32.59
To:	N 63:14.46	W 64:45.81

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 245.3 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .5 fps (s.d.= 2.5)
Ave Fil Vel -> .7 fps (s.d.= 1.8)

NML XMIT PWR

	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 47.0	

	Tape Footage	Drive no.
Starting:	2806 ft	(1)
Ending:	4038 ft	(1)

Vel Bias
X: 1035.0
Y: -433.0
Z: 6697.0

CAL Atten
X: 63.8 dB
L: 63.8 dB
C: 63.8 dB

LINE Map Time (UCT)
Start: 22:02:56
End: 22:05:34

Mocomp Counters

Start: 265131 00040BABh
End: 291631 0004732Fh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00:0
Lon: E 0:00:0

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Tape: E1421

Post-line Data Sheet
Line 7
Mission: PORTAGE MAINE, DAY

Time: 177:22:15:48
Pass 4
Req.# 5

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	13494 ft s.d.=	4 Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	17958 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Right	St rng (ft):	16424	16424	16424	16424
Depr Ang:	25.0°	Near Rng Dep:	55.2°	55.2°	55.2°	55.2°
Des. trk:	276.0°	Far Rng Dep:	24.5°	24.5°	24.5°	24.5°
Start Sq:	90.0°	Atten (dB):	52.0	55.0	53.0	59.0
End Sq:	90.0°	RMS Video (%FS)	29.8	27.4	21.7	25.3

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:40.39	W 68:04.74
Start:	N 46:41.68	W 68:22.07
End:	N 46:42.73	W 68:36.53
From:	N 42:36.03	W 45:45.85
To:	N 45:53.35	W 92:35.40

Main Target: CALCS
Mocomp Point:
Lat: N 46:44.29
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 802.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 249.9 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 1.6 fps (s.d.= 1.8)
Ave Fil Vel -> .8 fps (s.d.= 1.6)

NML XMIT PWR

	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 47.0	

Tape Footage

Drive no.

Starting:	4053 ft	(1)
Ending:	5303 ft	(1)

Vel Bias

X: 1035.0	CAI, Atten
Y: -433.0	X: 63.8 dB
Z: 6697.0	L: 63.8 dB
	C: 63.8 dB

LINE Map Time (UCT)

Start: 22:15:48
End: 22:18:30

Mocomp Counters

Start:	317331	0004D793h
End:	344671	0005425Fh

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)
Lat: N 0:00:0
Lon: E 0:00:0

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Tape: E1421

Post-line Data Sheet
Line 9
Mission: PORTAGE MAINE, DAY

Time: 177:22:31:47
Pass 5
Req.# 6

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9971 ft s.d.=	5 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18396 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16861	16861	16861	16861
Depr Ang:	25.0°	Near Rng Dep:	36.3°	36.3°	36.3°	36.3°
Des. trk:	276.0°	Far Rng Dep:	17.6°	17.6°	17.6°	17.6°
Start Sq:	90.0°	Atten (dB):	54.0	55.0	53.0	60.0
End Sq:	90.0°	RMS Video (%FS)	25.6	24.9	22.8	26.0

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:39.86	W 68:04.82
Start:	N 46:41.15	W 68:22.15
End:	N 46:42.20	W 68:36.61
From:	N 42:35.56	W 45:46.11
To:	N 45:52.85	W 92:35.25

Main Target: CALCS
Mocomp Point:
Lat: N 46:44.29
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 802.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 252.7 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -.3 fps (s.d.= 1.5)
Ave Fil Vel -> -1.4 fps (s.d.= 1.2)

NML XMIT PWR	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 47.0	

Tape Footage	Drive no.
Starting: 5318 ft	(1)
Ending: 6547 ft	(1)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 22:31:47
End: 22:34:27

Mocomp Counters

Start: 367515 00059B9Bh
End: 394364 0006047Ch

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00:0
Lon: E 0:00:0

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Tape: E1421

Post-line Data Sheet
Line 11
Mission: PORTAGE MAINE, DAY

Time: 177:22:42:47
Pass 6
Req.# 7

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9979 ft s.d.=	3 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18680 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	17141	17141	17141	17141
Depr Ang:	25.0°	Near Rng Dep:	35.6°	35.6°	35.6°	35.6°
Des. trk:	66.0°	Far Rng Dep:	17.5°	17.5°	17.5°	17.5°
Start Sq:	90.0°	Atten (dB):	50.0	52.0	53.0	57.0
End Sq:	90.0°	RMS Video (%FS)	34.0	30.7	20.5	28.1

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:40.21	W 68:54.68
Start:	N 46:45.12	W 68:38.78
End:	N 46:49.19	W 68:25.49
From:	N 38:11.70	W 87:57.28
To:	N 51:06.09	W 43:59.16

Main Target: GP

Mocomp Point:

Lat: N 46:44.73

Long: W 68:30.56

Tgt Trk: 0.0 Tgt Vel: 0.0

Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.6 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 1.6 fps (s.d.= 5.8)
Ave Fil Vel -> 2.7 fps (s.d.= 5.4)

NML XMIT PWR

	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.9	

Tape Footage

Drive no.

Starting:	6562 ft	(1)
Ending:	7791 ft	(1)

Vel Bias

X: 1035.0	CAL Atten
Y: -433.0	X: 63.8 dB
Z: 6697.0	L: 63.8 dB
	C: 63.8 dB

LINE Map Time (UCT)

Start: 22:42:47
End: 22:45:22

Mocomp Counters

Start: 417376 00065E60h
End: 443377 0006C3F1h

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1421

Post-line Data Sheet
Line 13
Mission: PORTAGE MAINE, DAY

Time: 177:22:51:36
Pass 7
Req.# 8

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9956 ft s.d.=	3 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18680 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	17141	17141	17141	17141
Depr Ang:	25.0°	Near Rng Dep:	35.5°	35.5°	35.5°	35.5°
Des. trk:	246.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	52.0	54.0	53.0	59.0
End Sq:	90.0°	RMS Video (%FS)	32.4	26.4	25.8	24.2

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:49.16	W 68:06.36
Start:	N 46:44.31	W 68:22.34
End:	N 46:40.25	W 68:35.62
From:	N 51:01.11	W 43:58.40
To:	N 38:07.53	W 87:53.28

Main Target: GP

Mocomp Point:

Lat: N 46:44.73

Long: W 68:30.56

Tgt Trk: 0.0 Tgt Vel: 0.0

Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.3 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -6.3 fps (s.d.= 5.8)
Ave Fil Vel -> -7.1 fps (s.d.= 5.5)

NML XMIT PWR

ANT BIAS

Tape Footage

Drive no.

X: -70.0	Elevation:	0.0°
L: -70.0	Azimuth:	0.0°
C: -70.0	Pitch:	0.0°
P: 46.9		

Starting:	7807 ft	(1)
Ending:	9038 ft	(1)

Vel Bias
X: 1035.0
Y: -433.0
Z: 6697.0

CAL Atten
X: 63.8 dB
L: 63.8 dB
C: 63.8 dB

LINE Map Time (UCT)
Start: 22:51:36
End: 22:54:17

Mocomp Counters

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

Start: 462892 0007102Ch
End: 489894 000779A6h

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Tape: E1421

Post-line Data Sheet
Line 15
Mission: PORTAGE MAINE, DAY

Time: 177:23:02:58
Pass 8
Req.# 9

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9984 ft s.d.=	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18680 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	17141	17141	17141	17141
Depr Ang:	25.0°	Near Rng Dep:	35.6°	35.6°	35.6°	35.6°
Des. trk:	36.0°	Far Rng Dep:	17.5°	17.5°	17.5°	17.5°
Start Sq:	90.0°	Atten (dB):	52.0	54.0	53.0	59.0
End Sq:	90.0°	RMS Video (%FS)	29.2	21.4	21.3	32.6

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:32.53	W 68:48.17
Start:	N 46:42.25	W 68:37.97
End:	N 46:50.34	W 68:29.42
From:	N 32:36.42	W 80:04.73
To:	N 58:57.94	W 49:34.83

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 255.1 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> -.7 fps (s.d.= 1.1)
Ave Fil Vel -> -0.0 fps (s.d.= .8)

NML XMIT PWR

X: -70.0
L: -70.0
C: -70.0
P: 46.8

ANT BIAS

Elevation: 0.0°
Azimuth: 0.0°
Pitch: 0.0°

Tape Footage

Starting: 9054 ft (1)
Ending: 10279 ft (1)

Drive no.

Vel Bias
X: 1035.0
Y: -433.0
Z: 6697.0

CAL Atten
X: 63.8 dB
L: 63.8 dB
C: 63.8 dB

LINE Map Time (UCT)

Start: 23:02:58
End: 23:05:38

Mocomp Counters

Start: 516937 0007E349h
End: 543743 00084BFFh

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1422

Post-line Data Sheet
Line 17
Mission: PORTAGE MAINE, DAY

Time: 177:23:12:26
Pass 9
Req.# 10

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9937 ft s.d.=	4 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18680 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	17141	17141	17141	17141
Depr Ang:	25.0°	Near Rng Dep:	35.4°	35.4°	35.4°	35.4°
Des. trk:	216.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	52.0	54.0	53.0	61.0
End Sq:	90.0°	RMS Video (%FS)	23.1	13.2	15.2	14.9

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:56.89	W 68:12.83
Start:	N 46:47.20	W 68:23.14
End:	N 46:39.11	W 68:31.69
From:	N 58:54.63	W 49:29.68
To:	N 32:33.55	W 79:58.52

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.7 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.7 fps (s.d.= 1.2)
Ave Fil Vel -> -1.9 fps (s.d.= .9)

NML XMIT PWR	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.8	

Tape Footage	Drive no.
Starting: 200 ft	(2)
Ending: 1469 ft	(2)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 23:12:26
End: 23:15:06

Mocomp Counters

Start: 570090 0008B2EAh
End: 596959 00091BDFh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1422

Post-line Data Sheet
Line 19
Mission: PORTAGE MAINE, DAY

Time: 177:23:22:34
Pass 10
Req.# 11

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9981 ft s.d.=	3 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18680 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	17141	17141	17141	17141
Depr Ang:	25.0°	Near Rng Dep:	35.6°	35.6°	35.6°	35.6°
Des. trk:	6.0°	Far Rng Dep:	17.5°	17.5°	17.5°	17.5°
Start Sq:	90.0°	Atten (dB):	52.0	54.0	53.0	63.0
End Sq:	90.0°	RMS Video (%FS)	23.4	14.4	16.0	15.1

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:28.10	W 68:36.99
Start:	N 46:40.03	W 68:35.18
End:	N 46:49.97	W 68:33.66
From:	N 30:07.77	W 70:33.39
To:	N 63:14.52	W 64:46.60

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 249.9 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 2.2 fps (s.d.= 3.2)
Ave Fil Vel -> 2.1 fps (s.d.= 3.0)

NML XMIT PWR

X: -70.0
L: -70.0
C: -70.0
P: 46.7

ANT BIAS

Elevation: 0.0°
Azimuth: 0.0°
Pitch: 0.0°

Tape Footage

Starting: 1480 ft (2)
Ending: 2740 ft (2)

Drive no.

Vel Bias

X: 1035.0
Y: -433.0
Z: 6697.0

CAL Atten

X: 63.8 dB
L: 63.8 dB
C: 63.8 dB

LINE Map Time (UCT)

Start: 23:22:34
End: 23:25:14

Mocomp Counters

Start: 628672 000997C0h
End: 655473 000A0071h

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)
Lat: N 0:00:0
Lon: E 0:00:0

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Tape: E1422

Post-line Data Sheet
Line 21
Mission: PORTAGE MAINE, DAY

Time: 177:23:32:38
Pass 11
Req.# 12

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9948 ft s.d.=	5 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18680 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	17141	17141	17141	17141
Depr Ang:	25.0°	Near Rng Dep:	35.5°	35.5°	35.5°	35.5°
Des. trk:	186.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	52.0	54.0	53.0	63.0
End Sq:	90.0°	RMS Video (%FS)	21.3	10.2	13.0	22.8

WAYPOINTS

Line_up:	N 47:01.35	W 68:24.11	Main Target:	GP
Start:	N 46:49.42	W 68:25.95	Mocomp Point:	
End:	N 46:39.48	W 68:27.47	Lat:	N 46:44.73
			Long:	W 68:30.56
From:	N 63:13.96	W 64:38.93	Tgt Trk:	0.0
To:	N 30:07.21	W 70:25.69	Tgt Vel:	0.0
			Alt:	660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1	Filter damping is Hi -> 10 sec
Resolution: N/A	PRF Factor is FAST (262.5 kts)
Swath width: Single	Ave Gndspd: Real -> 257.2 kts
RMS Time Constant: 2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference: ON	GPS Vel/Pos Reference
Atten. Tracking: OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta: 0.0 ft	Range Tracking is OFF
Azimuth Presum Rate: Presum6	Clutterlock Reference: OFF
TX Chirp Filename: CTL1U2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.5 fps (s.d.= 1.1)
Ave Fil Vel -> -.9 fps (s.d.= .8)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 2753 ft	(2)
L: -70.0	Azimuth: 0.0°	Ending: 3971 ft	(2)
C: -70.0	Pitch: 0.0°		
P: 46.7			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1035.0	X: 63.8 dB	Start: 23:32:38
Y: -433.0	L: 63.8 dB	End: 23:35:14
Z: 6697.0	C: 63.8 dB	

Mocomp Counters

Start:	680986	000A641Ah	CPA (UCT): 00:00:00
End:	707159	000ACA57h	Alt: 0 ft (GPS)
			Lat: N 0:00: 0
			Lon: E 0:00: 0

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Tape: E1422

Post-line Data Sheet
Line 23
Mission: PORTAGE MAINE, DAY

Time: 177:23:47:44
Pass 12
Req.# 13

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9993 ft s.d.=	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18680 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	17141	17141	17141	17141
Depr Ang:	25.0°	Near Rng Dep:	35.7°	35.7°	35.7°	35.7°
Des. trk:	306.0°	Far Rng Dep:	17.5°	17.5°	17.5°	17.5°
Start Sq:	90.0°	Atten (dB):	52.0	54.0	53.0	63.0
End Sq:	90.0°	RMS Video (%FS)	31.9	13.0	24.9	31.0

WAYPOINTS

Line_up:	N 46:32.56	W 68:12.91	Main Target: GP
Start:	N 46:39.64	W 68:26.96	Mocomp Point:
End:	N 46:45.51	W 68:38.72	Lat: N 46:44.73
			Long: W 68:30.56
From:	N 35:34.36	W 52:00.47	Tgt Trk: 0.0 Tgt Vel: 0.0
To:	N 54:22.90	W 91:55.23	Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1	Filter damping is Hi -> 10 sec
Resolution: N/A	PRF Factor is FAST (262.5 kts)
Swath width: Single	Ave Gndspd: Real -> 249.2 kts
RMS Time Constant: 2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference: ON	GPS Vel/Pos Reference
Atten. Tracking: OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta: 0.0 ft	Range Tracking is OFF
Azimuth Presum Rate: Presum6	Clutterlock Reference: OFF
TX Chirp Filename: CTL1U2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -.9 fps (s.d.= 3.7)
Ave Fil Vel -> -1.8 fps (s.d.= 3.5)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 3984 ft	(2)
L: -70.0	Azimuth: 0.0°	Ending: 5237 ft	(2)
C: -70.0	Pitch: 0.0°		
P: 46.7			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1035.0	X: 63.8 dB	Start: 23:47:44
Y: -433.0	L: 63.8 dB	End: 23:50:25
Z: 6697.0	C: 63.8 dB	

Mocomp Counters

Start:	753170	000B7E12h	CPA (UCT): 00:00:00
End:	780171	000BE78Bh	Alt: 0 ft (GPS)
			Lat: N 0:00:0
			Lon: E 0:00:0

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Tape: E1422

Post-line Data Sheet
Line 25
Mission: PORTAGE MAINE, DAY

Time: 177:23:57:03
Pass 13
Req.# 14

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9969 ft s.d.=	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18680 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	17141	17141	17141	17141
Depr Ang:	25.0°	Near Rng Dep:	35.6°	35.6°	35.6°	35.6°
Des. trk:	126.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	52.0	54.0	53.0	63.0
End Sq:	90.0°	RMS Video (%FS)	28.2	15.9	17.6	35.5

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:56.83	W 68:48.36
Start:	N 46:49.80	W 68:34.19
End:	N 46:43.93	W 68:22.42
From:	N 54:27.42	W 91:52.73
To:	N 35:38.07	W 51:55.62

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 248.6 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel ->-11.6 fps (s.d.= 3.5)
Ave Fil Vel -> -9.8 fps (s.d.= 3.0)

NML XMIT PWR	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.8	

Tape Footage	Drive no.
Starting: 5250 ft	(2)
Ending: 5524 ft	(2)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 23:57:03
End: 23:57:28

Mocomp Counters

Start: 802016 000C3CE0h
End: 806350 000C4DCEh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1422

Post-line Data Sheet
Line 25
Mission: PORTAGE MAINE, DAY

Time: 178:00:09:47
Pass 14
Req.# 14

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9979 ft s.d.=	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18680 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	17141	17141	17141	17141
Depr Ang:	25.0°	Near Rng Dep:	35.6°	35.6°	35.6°	35.6°
Des. trk:	126.0°	Far Rng Dep:	17.5°	17.5°	17.5°	17.5°
Start Sq:	90.0°	Atten (dB):	52.0	54.0	53.0	63.0
End Sq:	90.0°	RMS Video (%FS)	26.2	15.5	16.9	34.2

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:56.83	W 68:48.36
Start:	N 46:49.80	W 68:34.19
End:	N 46:43.93	W 68:22.42
From:	N 54:27.42	W 91:52.73
To:	N 35:38.07	W 51:55.62

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 253.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -.6 fps (s.d.= 1.5)
Ave Fil Vel -> .8 fps (s.d.= 1.5)

NML XMIT PWR
X: -70.0
L: -70.0
C: -70.0
P: 46.8

ANT BIAS
Elevation: 0.0°
Azimuth: 0.0°
Pitch: 0.0°

Tape Footage
Starting: 5537 ft (2)
Ending: 6766 ft (2)

Vel Bias
X: 1035.0
Y: -433.0
Z: 6697.0

CAL Atten
X: 63.8 dB
L: 63.8 dB
C: 63.8 dB

LINE Map Time (UCT)
Start: 00:09:47
End: 00:12:26

Mocomp Counters

Start: 844534 000CE2F6h
End: 871201 000D4B21h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Post-line Data Sheet
Line 27
Mission: PORTAGE MAINE, DAY

Time: 178:00:22:27
Pass 15
Req.# 15

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9989 ft s.d.=	3 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18680 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	17141	17141	17141	17141
Depr Ang:	25.0°	Near Rng Dep:	35.6°	35.6°	35.6°	35.6°
Des. trk:	336.0°	Far Rng Dep:	17.5°	17.5°	17.5°	17.5°
Start Sq:	90.0°	Atten (dB):	52.0	54.0	53.0	63.0
End Sq:	90.0°	RMS Video (%FS)	27.1	9.9	19.0	23.2

WAYPOINTS

Line_up:	N 46:28.11	W 68:24.09	Main Target:	GP
Start:	N 46:39.08	W 68:31.14	Mocomp Point:	
End:	N 46:48.21	W 68:37.06	Lat:	N 46:44.73
			Long:	W 68:30.56
From:	N 31:10.38	W 60:44.66	Tgt Trk:	0.0
To:	N 61:16.22	W 82:32.56	Tgt Vel:	0.0
			Alt:	660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1	Filter damping is Hi -> 10 sec
Resolution: N/A	PRF Factor is FAST (262.5 kts)
Swath width: Single	Ave Gndspd: Real -> 249.7 kts
RMS Time Constant: 2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference: ON	GPS Vel/Pos Reference
Atten. Tracking: OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta: 0.0 ft	Range Tracking is OFF
Azimuth Presum Rate: Presum6	Clutterlock Reference: OFF
TX Chirp Filename: CTL1U2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .3 fps (s.d.= .9)
Ave Fil Vel -> -.5 fps (s.d.= .7)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 6780 ft	(2)
L: -70.0	Azimuth: 0.0°	Ending: 8025 ft	(2)
C: -70.0	Pitch: 0.0°		
P: 47.0			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1035.0	X: 63.8 dB	Start: 00:22:27
Y: -433.0	L: 63.8 dB	End: 00:25:11
Z: 6697.0	C: 63.8 dB	

Mocomp Counters

Start:	908049	000DDB11h	CPA (UCT): 00:00:00
End:	935547	000E467Bh	Alt: 0 ft (GPS)
			Lat: N 0:00: 0
			Lon: E 0:00: 0

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Post-line Data Sheet
Line 29
Mission: PORTAGE MAINE, DAY

Time: 178:00:31:42
Pass 16
Req.# 16

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9959 ft s.d.=	4 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18680 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	17141	17141	17141	17141
Depr Ang:	25.0°	Near Rng Dep:	35.5°	35.5°	35.5°	35.5°
Des. trk:	156.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	53.0	54.0	53.0	63.0
End Sq:	90.0°	RMS Video (%FS)	27.7	10.2	22.2	12.8

WAYPOINTS

	Latitude	Longitude
Line up:	N 47:01.32	W 68:37.14
Start:	N 46:50.37	W 68:30.00
End:	N 46:41.24	W 68:24.09
From:	N 61:18.45	W 82:26.03
To:	N 31:12.45	W 60:37.70

Main Target: GP

Mocomp Point:

Lat: N 46:44.73

Long: W 68:30.56

Tgt Trk: 0.0 Tgt Vel: 0.0

Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.1 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -0.0 fps (s.d.= 1.4)
Ave Fil Vel -> 1.0 fps (s.d.= 1.3)

NML XMIT PWR	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 47.1	

Tape Footage	Drive no.
Starting: 8038 ft	(2)
Ending: 9267 ft	(2)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 00:31:42
End: 00:34:24

Mocomp Counters

Start: 959726 000EA4EEh
End: 986894 000F0F0Eh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00:0
Lon: E 0:00:0

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Post-line Data Sheet
Line 31
Mission: PORTAGE MAINE, DAY

Time: 178:00:44:17
Pass 17
Req.# 17

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9972 ft s.d.=	3 Swath Ctr Ang:	28.0°	28.0°	28.0°	28.0°
Slt. rng:	19592 ft	Tgt Dep Ang:	28.0°	28.0°	28.0°	28.0°
Look:	Right	St rng (ft):	16339	16339	16339	16339
Depr Ang:	25.0°	Near Rng Dep:	37.6°	37.6°	37.6°	37.6°
Des. trk:	276.0°	Far Rng Dep:	17.9°	17.9°	17.9°	17.9°
Start Sq:	90.0°	Atten (dB):	54.0	54.0	54.0	63.0
End Sq:	90.0°	RMS Video (%FS)	32.2	14.4	22.3	19.5

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:39.64	W 68:04.86
Start:	N 46:40.93	W 68:22.18
End:	N 46:41.98	W 68:36.64
From:	N 42:35.36	W 45:46.22
To:	N 45:52.64	W 92:35.19

Main Target: CALCS
Mocomp Point:
Lat: N 46:44.29
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 1.0
Alt: 802.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL2U1A

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.5 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL2N0A

Ave Ref Vel -> -.9 fps (s.d.= 1.3)
Ave Fil Vel -> -2.2 fps (s.d.= 1.0)

NML XMIT PWR	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 44.7	

Tape Footage	Drive no.
Starting: 200 ft	(1)
Ending: 1439 ft	(1)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 00:44:17
End: 00:46:58

Mocomp Counters

Start: 1020406 000F91F6h
End: 1047407 000FFB6Fh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1423

Post-line Data Sheet
Line 33
Mission: PORTAGE MAINE, DAY

Time: 178:01:01:46
Pass 18
Req.# 18

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	7000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	6834 ft s.d.=	8 Swath Ctr Ang:	20.0°	20.0°	20.0°	20.0°
Slt. rng:	18537 ft	Tgt Dep Ang:	20.0°	20.0°	20.0°	20.0°
Look:	Right	St rng (ft):	17001	17001	17001	17001
Depr Ang:	25.0°	Near Rng Dep:	23.7°	23.7°	23.7°	23.7°
Des. trk:	276.0°	Far Rng Dep:	11.9°	11.9°	11.9°	11.9°
Start Sq:	90.0°	Atten (dB):	54.0	52.0	54.0	63.0
End Sq:	90.0°	RMS Video (%FS)	18.2	26.4	13.8	27.8

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:40.30	W 68:06.18
Start:	N 46:41.59	W 68:23.50
End:	N 46:42.64	W 68:37.97
From:	N 42:35.97	W 45:47.31
To:	N 45:53.24	W 92:36.79

Main Target: SIG
Mocomp Point:
Lat: N 46:44.97
Long: W 68:30.30
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 254.1 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -5.8 fps (s.d.= 12.8)
Ave Fil Vel -> -7.2 fps (s.d.= 12.4)

NML XMIT PWR	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 47.1	

Tape Footage	Drive no.
Starting: 1454 ft	(1)
Ending: 2679 ft	(1)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:01:46
End: 01:04:24

Mocomp Counters

Start: 1087785 00109929h
End: 1114252 0011008Ch

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1423

Post-line Data Sheet
Line 35
Mission: PORTAGE MAINE, DAY

Time: 178:01:13:38
Pass 19
Req.# 19

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5845 ft s.d.=	2 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20632 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	19097	19097	19097	19097
Depr Ang:	25.0°	Near Rng Dep:	17.8°	17.8°	17.8°	17.8°
Des. trk:	6.0°	Far Rng Dep:	9.6°	9.6°	9.6°	9.6°
Start Sq:	90.0°	Atten (dB):	54.0	48.0	50.0	63.0
End Sq:	90.0°	RMS Video (%FS)	13.1	15.0	13.3	16.5

WAYPOINTS

Line_up:	N 46:28.17	W 68:37.88	Main Target: GP
Start:	N 46:40.10	W 68:36.07	Mocomp Point:
End:	N 46:50.04	W 68:34.55	Lat: N 46:44.73
			Long: W 68:30.56
From:	N 30:07.84	W 70:34.28	Tgt Trk: 0.0 Tgt Vel: 0.0
To:	N 63:14.58	W 64:47.49	Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1	Filter damping is Hi -> 10 sec
Resolution: N/A	PRF Factor is FAST (262.5 kts)
Swath width: Single	Ave Gndspd: Real -> 250.6 kts
RMS Time Constant: 2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference: ON	GPS Vel/Pos Reference
Atten. Tracking: OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta: 0.0 ft	Range Tracking is OFF
Azimuth Presum Rate: Presum6	Clutterlock Reference: OFF
TX Chirp Filename: CTL1U2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -.1 fps (s.d.= .8)
Ave Fil Vel -> -.6 fps (s.d.= .7)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 2694 ft	(1)
L: -70.0	Azimuth: 0.0°	Ending: 3948 ft	(1)
C: -70.0	Pitch: 0.0°		
P: 46.2			

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:13:38
End: 01:16:17

Mocomp Counters

Start: 1141976 00116CD8h
End: 1168601 0011D4D9h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00:0
Lon: E 0:00:0

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Tape: E1423

Post-line Data Sheet
Line 37
Mission: PORTAGE MAINE, DAY

Time: 178:01:24:19
Pass 20
Req.# 20

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5833 ft s.d.=	1 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20632 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	19097	19097	19097	19097
Depr Ang:	25.0°	Near Rng Dep:	17.8°	17.8°	17.8°	17.8°
Des. trk:	186.0°	Far Rng Dep:	9.5°	9.5°	9.5°	9.5°
Start Sq:	90.0°	Atten (dB):	51.0	48.0	50.0	63.0
End Sq:	90.0°	RMS Video (%FS)	18.7	24.1	15.4	9.5

WAYPOINTS

	Latitude	Longitude
Line_up:	N 47:01.28	W 68:23.22
Start:	N 46:49.35	W 68:25.06
End:	N 46:39.41	W 68:26.58
From:	N 63:13.90	W 64:38.04
To:	N 30:07.15	W 70:24.80

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 247.0 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.3 fps (s.d.= .4)
Ave Fil Vel -> -.8 fps (s.d.= .2)

NML XMIT PWR	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.9	

Tape Footage	Drive no.
Starting: 3962 ft	(1)
Ending: 5206 ft	(1)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:24:19
End: 01:27:01

Mocomp Counters

Start:	1198955	00124B6Bh
End:	1200623	001251EFh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1423

Post-line Data Sheet
Line 37
Mission: PORTAGE MAINE, DAY

Time: 178:01:24:28
Pass 21
Req.# 20

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5828 ft s.d.=	4 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20632 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	19097	19097	19097	19097
Depr Ang:	25.0°	Near Rng Dep:	17.8°	17.8°	17.8°	17.8°
Des. trk:	186.0°	Far Rng Dep:	9.5°	9.5°	9.5°	9.5°
Start Sq:	90.0°	Atten (dB):	51.0	48.0	50.0	61.0
End Sq:	90.0°	RMS Video (%FS)	18.4	22.1	15.7	9.3

WAYPOINTS

	Latitude	Longitude
Line up:	N 47:01.28	W 68:23.22
Start:	N 46:49.35	W 68:25.06
End:	N 46:39.41	W 68:26.58
From:	N 63:13.90	W 64:38.04
To:	N 30:07.15	W 70:24.80

Main Target: GP

Mocomp Point:

Lat: N 46:44.73

Long: W 68:30.56

Tgt Trk: 0.0 Tgt Vel: 0.0

Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 243.7 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.8 fps (s.d.= .7)
Ave Fil Vel -> -1.4 fps (s.d.= .5)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 3962 ft	(1)
L: -70.0	Azimuth: 0.0°	Ending: 5206 ft	(1)
C: -70.0	Pitch: 0.0°		
P: 46.8			

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:24:28
End: 01:27:01

Mocomp Counters

Start: 1200623 001251EFh
End: 1226131 0012B593h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1423

Post-line Data Sheet
Line 39
Mission: PORTAGE MAINE, DAY

Time: 178:01:35:52
Pass 22
Req.# 21

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5846 ft s.d.=	3 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20632 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	19097	19097	19097	19097
Depr Ang:	25.0°	Near Rng Dep:	17.8°	17.8°	17.8°	17.8°
Des. trk:	336.0°	Far Rng Dep:	9.6°	9.6°	9.6°	9.6°
Start Sq:	90.0°	Atten (dB):	47.0	44.0	37.0	61.0
End Sq:	90.0°	RMS Video (%FS)	26.3	18.2	34.2	22.6

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:27.86	W 68:24.91
Start:	N 46:38.83	W 68:31.96
End:	N 46:47.96	W 68:37.88
From:	N 31:10.14	W 60:45.47
To:	N 61:15.96	W 82:33.31

Main Target: GP

Mocomp Point:

Lat: N 46:44.73

Long: W 68:30.56

Tgt Trk: 0.0 Tgt Vel: 0.0

Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 249.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -.8 fps (s.d.= .9)
Ave Fil Vel -> -2.0 fps (s.d.= .8)

NML XMIT PWR	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.5	

Tape Footage	Drive no.
Starting: 5221 ft	(1)
Ending: 6487 ft	(1)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:35:52
End: 01:38:37

Mocomp Counters

Start: 1255642 001328DAh
End: 1283311 001394EFh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1423

Post-line Data Sheet
Line 41
Mission: PORTAGE MAINE, DAY

Time: 178:01:46:53
Pass 23
Req.# 22

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5845 ft s.d.=	3 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20632 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	19097	19097	19097	19097
Depr Ang:	25.0°	Near Rng Dep:	17.8°	17.8°	17.8°	17.8°
Des. trk:	156.0°	Far Rng Dep:	9.6°	9.6°	9.6°	9.6°
Start Sq:	90.0°	Atten (dB):	47.0	47.0	46.0	61.0
End Sq:	90.0°	RMS Video (%FS)	25.6	23.4	18.9	28.9

WAYPOINTS

	Latitude	Longitude
Line up:	N 47:01.57	W 68:36.32
Start:	N 46:50.62	W 68:29.18
End:	N 46:41.49	W 68:23.26
From:	N 61:18.71	W 82:25.28
To:	N 31:12.69	W 60:36.89

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 252.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .4 fps (s.d.= 1.0)
Ave Fil Vel -> 1.2 fps (s.d.= .8)

NML XMIT PWR	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.3	

Tape Footage	Drive no.
Starting: 6499 ft	(1)
Ending: 7709 ft	(1)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:46:53
End: 01:49:31

Mocomp Counters

Start:	1316823	001417D7h
End:	1343323	00147F5Bh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1423

Post-line Data Sheet
Line 43
Mission: PORTAGE MAINE, DAY

Time: 178:01:58:31
Pass 24
Req.# 23

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5840 ft s.d.=	4 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20632 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	19097	19097	19097	19097
Depr Ang:	25.0°	Near Rng Dep:	17.8°	17.8°	17.8°	17.8°
Des. trk:	306.0°	Far Rng Dep:	9.5°	9.5°	9.5°	9.5°
Start Sq:	90.0°	Atten (dB):	47.0	44.0	42.0	61.0
End Sq:	90.0°	RMS Video (%FS)	26.0	24.3	28.1	25.0

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:32.06	W 68:13.43
Start:	N 46:39.14	W 68:27.49
End:	N 46:45.01	W 68:39.25
From:	N 35:33.93	W 52:01.04
To:	N 54:22.37	W 91:55.52

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 244.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> -1.2 fps (s.d.= 1.4)
Ave Fil Vel -> -2.7 fps (s.d.= 1.3)

NML XMIT PWR	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.1	

Tape Footage	Drive no.
Starting: 7725 ft	(1)
Ending: 8993 ft	(1)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:58:31
End: 02:01:16

Mocomp Counters

Start: 1376501 001500F5h
End: 1404168 00156D08h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1423

Post-line Data Sheet
Line 45
Mission: PORTAGE MAINE, DAY

Time: 178:02:11:05
Pass 25
Req.# 24

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5854 ft s.d.=	4 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20632 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	19097	19097	19097	19097
Depr Ang:	25.0°	Near Rng Dep:	17.8°	17.8°	17.8°	17.8°
Des. trk:	126.0°	Far Rng Dep:	9.6°	9.6°	9.6°	9.6°
Start Sq:	90.0°	Atten (dB):	47.0	47.0	44.0	56.0
End Sq:	90.0°	RMS Video (%FS)	28.2	28.7	24.7	16.1

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:57.33	W 68:47.84
Start:	N 46:50.30	W 68:33.66
End:	N 46:44.43	W 68:21.89
From:	N 54:27.95	W 91:52.44
To:	N 35:38.50	W 51:55.06

Main Target: GP

Mocomp Point:

Lat: N 46:44.73

Long: W 68:30.56

Tgt Trk: 0.0 Tgt Vel: 0.0

Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.1 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> .2 fps (s.d.= 1.0)
Ave Fil Vel -> 1.5 fps (s.d.= .7)

NML XMIT PWR	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.3	

Tape Footage	Drive no.
Starting: 9008 ft	(1)
Ending: 10264 ft	(1)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 02:11:05
End: 02:13:47

Mocomp Counters

Start: 1442390 00160256h
End: 1469537 00166C61h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1414

Post-line Data Sheet
Line 47
Mission: PORTAGE MAINE, DAY

Time: 178:02:22:33
Pass 26
Req.# 25

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5845 ft s.d.=	3 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20084 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18544	18544	18544	18544
Depr Ang:	25.0°	Near Rng Dep:	18.4°	18.4°	18.4°	18.4°
Des. trk:	276.0°	Far Rng Dep:	9.7°	9.7°	9.7°	9.7°
Start Sq:	90.0°	Atten (dB):	47.0	45.0	44.0	56.0
End Sq:	90.0°	RMS Video (%FS)	24.5	32.2	20.5	17.0

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:39.29	W 68:04.91
Start:	N 46:40.59	W 68:22.23
End:	N 46:41.63	W 68:36.69
From:	N 42:35.05	W 45:46.38
To:	N 45:52.31	W 92:35.10

Main Target: CALCS
Mocomp Point:
Lat: N 46:44.29
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 802.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 253.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> -.4 fps (s.d.= 5.6)
Ave Fil Vel -> -2.2 fps (s.d.= 5.4)

NML XMIT PWR	ANT BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.4	

Tape Footage	Drive no.
Starting: 201 ft	(2)
Ending: 1462 ft	(2)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 02:22:33
End: 02:25:13

Mocomp Counters

Start: 1495751 0016D2C7h
End: 1522549 00173B75h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

27 Jun 1995
Tape: E1414

Post-line Data Sheet
Line 2
Mission: PORTAGE MAINE, DAY

Time: 178:02:35:33
Pass 27
Req.# 2

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	X-HH	L-HH	C-HH	L-VV
Baro:	13315 ft s.d.=	3 Swath Ctr Ang:	40.0°	40.0°	40.0°	40.0°
Slt. rng:	19975 ft	Tgt Dep Ang:	40.0°	40.0°	40.0°	40.0°
Look:	Left	St rng (ft):	11915	11915	11915	11915
Depr Ang:	25.0°	Near Rng Dep:	90.0°	90.0°	90.0°	90.0°
Des. trk:	186.0°	Far Rng Dep:	28.4°	28.4°	28.4°	28.4°
Start Sq:	-90.0°	Atten (dB):	18.0	36.0	20.0	33.0
End Sq:	-90.0°	RMS Video (%FS)	10.3	23.0	25.3	32.0

WAYPOINTS

Line_up:	N 47:01.89	W 68:31.61	Main Target: GP
Start:	N 46:49.96	W 68:33.44	Mocomp Point:
End:	N 46:40.02	W 68:34.96	Lat: N 46:44.73
			Long: W 68:30.56
From:	N 63:14.50	W 64:46.38	Tgt Trk: 0.0 Tgt Vel: 0.0
To:	N 30:07.76	W 70:33.17	Alt: 660.0 ft

RADAR PARAMETERS - for XLC

RTP Channel: 1	Filter damping is Hi -> 10 sec
Resolution: High	PRF Factor is FAST (262.5 kts)
Swath width: Single	Ave Gndspd: Real -> 255.0 kts
RMS Time Constant: 2^7	Mocomp On
Position Reference: ON	GPS Vel/Pos Reference
Atten. Tracking: OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta: 0.0 ft	Range Tracking is OFF
Azimuth Presum Rate: Presum6	Clutterlock Reference: OFF

Ave Ref Vel -> 20.1 fps (s.d.= 2.3)
Ave Fil Vel -> 22.9 fps (s.d.= 2.1)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -31.7	Elevation: 0.0°	Starting: 1475 ft	(2)
L: -31.4	Azimuth: 0.0°	Ending: 0 ft	(2)
C: -37.4	Pitch: 0.0°		
P: -70.0			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1035.0	X: 63.8 dB	Start: 02:35:33
Y: -433.0	L: 63.8 dB	End: 02:35:35
Z: 6697.0	C: 63.8 dB	

Mocomp Counters

Start: 1554630 0017B8C6h
End: 1522549 00173B75h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

27 Jun 1995
Tape: E1414

Post-line Data Sheet
Line 2
Mission: PORTAGE MAINE, DAY

Time: 178:02:45:32
Pass 28
Req.# 2

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	X-HH	L-HH	C-HH	L-VV
Baro:	13329 ft s.d.=	2 Swath Ctr Ang:	40.0°	40.0°	40.0°	40.0°
Slt. rng:	19975 ft	Tgt Dep Ang:	40.0°	40.0°	40.0°	40.0°
Look:	Left	St rng (ft):	11915	11915	11915	11915
Depr Ang:	25.0°	Near Rng Dep:	90.0°	90.0°	90.0°	90.0°
Des. trk:	186.0°	Far Rng Dep:	28.4°	28.4°	28.4°	28.4°
Start Sq:	-90.0°	Atten (dB):	18.0	36.0	20.0	33.0
End Sq:	-90.0°	RMS Video (%FS)	8.4	24.1	23.6	31.5

WAYPOINTS

	Latitude	Longitude
Line_up:	N 47:01.89	W 68:31.61
Start:	N 46:49.96	W 68:33.44
End:	N 46:40.02	W 68:34.96
From:	N 63:14.50	W 64:46.38
To:	N 30:07.76	W 70:33.17

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for XLC

RTP Channel: 1
Resolution: High
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.9 kts
Mocomp On
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF

Ave Ref Vel -> 1.8 fps (s.d.= .9)
Ave Fil Vel -> 2.8 fps (s.d.= .9)

NML XMIT PWR	ANT BIAS
X: -31.7	Elevation: 0.0°
L: -31.4	Azimuth: 0.0°
C: -37.4	Pitch: 0.0°
P: -70.0	

Tape Footage	Drive no.
Starting: 1712 ft	(2)
Ending: 2768 ft	(2)

Vel Bias	CAL Atten
X: 1035.0	X: 63.8 dB
Y: -433.0	L: 63.8 dB
Z: 6697.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 02:45:32
End: 02:47:55

Mocomp Counters

Start: 1590807 00184617h
End: 1613787 00189FDBh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00:0
Lon: E 0:00:0